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CHINESE AMERICAN ENVIRONMENTAL PROTECTION ASSOCIATION
CAEPA INVITES YOU TO A SEMINAR ON

PERCHLORATE CONTAMINATION, RISKS, AND REMEDIATION

MAY 14, 2003, WEDNESDAY, 7:00 — 8:30 PM

URS CORPORATION, 500 12TH STREET, 3RD FLOOR, OAKLAND

FREE EVENT, REFRESHMENTS PROVIDED BY CAEPA, PLEASE RSVP

Perchlorate, an oxidizer used in rocket fuel and other explosive products, is increasingly being found in soil and water nationwide. Perchlorate contamination affects more than 120 public water-supply systems across the United States, including 81 in California. Fifteen to 20 million people in California, Nevada, and Arizona have perchlorate in their water supplies due to perchlorate contamination in the Colorado River. Perchlorate affects the thyroid gland, which regulates metabolism and development. Infants and young children are particularly sensitive to the effects of perchlorate contamination.

Because the U.S. Department of Defense and other agencies disagree with the U.S. Environmental Protection Agency's (EPA) interpretation of the recent studies on perchlorate toxicity, EPA has decided to submit its draft Perchlorate Toxicity Assessment to the National Academy of Sciences to review critical areas of the assessment and provide recommendations. In the meantime, EPA has reiterated that risk management decisions should continue to be based on the provisional reference dose (4 to 18 ppb for adults). Use of levels above or below this range may be made after consultation with EPA HQ.

A decision on whether to establish a federal drinking-water standard is dependent on gathering national occurrence data from drinking-water systems. The data will not be completed until perhaps mid-2004, so the schedule for setting a standard, which takes several years, should not be disrupted. Currently, about 2 percent to 3 percent of public water-supply systems are reporting perchlorate detections, with less than one-fourth of the data submitted. California is expected to finalize a public health goal some time this summer, and may establish an enforceable drinking water standard for perchlorate in early 2004. The draft PHG is 2 to 6 ppb.

Following Mr. Mayer's presentation on the current status of perchlorate contamination in groundwater, Dr. Tong will discuss various treatment technologies for removing perchlorate from groundwater, along with the challenges and limitations of each technology.

DINNER SOCIAL & NETWORKING: 5:30-6:45 PM

SILVER DRAGON RESTAURANT, OAKLAND CHINATOWN ON WEBSTER ST. (BETWEEN 8TH & 9TH)

MEET THE CAEPA BOARD AND OTHER LEADING ENVIRONMENTAL EXPERTS & SCIENTISTS

SELF-HOSTED SOCIAL EVENT, PARTICIPANTS PAY THEIR OWN EXPENSES, NO RSVP NEEDED

SEMINAR PRESENTED BY LEADING EXPERTS

KEVIN P. MAYER, P.E.

Mr. Kevin Mayer has primarily managed large groundwater contamination cleanup projects since joining the United States Environmental Protection Agency (EPA) as Superfund Project Manager in 1990. He has been the head of the Perchlorate Team in Region 9 (covering Nevada, Arizona, California, and Hawaii) since its formation in 1997, bringing together water and waste experts, toxicologists, engineers, and scientists from several divisions in the regional office. Mr. Mayer participates on several national perchlorate work groups.

Mr. Mayer holds graduate degrees in soil science/microbiology (University of Washington) and civil engineering (Stanford University), focusing on chemical contamination's fate and transport in soil and groundwater.

XINGGANG TONG, PH.D.

Dr. Xinggong Tong has been a project manager at URS Corporation Oakland Office (formerly Woodward-Clyde) since 1994 and was an environmental engineer at Wahler Associates from 1989 through 1994. Dr. Tong has managed a wide variety of environmental investigation and restoration projects in the Bay Area, including the former Hamilton Army Airfield BRAC property restoration, investigation, and remediation of groundwater and soil contaminated with petroleum hydrocarbons, chlorinated solvents, semi-volatiles, and metals at several large chemical facilities. He also serves as a bioremediation expert within URS Corporation.

Dr. Tong graduated from Hunan University in China in 1981 with a B.S. degree in chemical engineering. He came to the United States in 1982 for graduate studies at Stanford University and earned a M.S. degree in 1984 and a Ph.D. degree in 1992, both in environmental engineering.

Direction to seminar location at the URS Corporation:

◀ **By BART** Exit at Oakland 12th St. station and through City Center. When exiting BART station, you'll see a water fountain (the fountain sometimes is turned off) and three-story buildings on both sides. URS office is in the left building. The first floor is occupied by restaurants (Max's, Pasta, etc). Enter the building and take elevator to the 3rd floor conference room. A sign will be posted to direct participants.

◀ **By car** URS office is located in downtown Oakland on 12th Street between Broadway and Clay Street. All street parking is free after 6:00 PM. If arriving before 6:00 pm, find a parking spot along the street for only \$0.75 per hour.

To RSVP for the seminar, please contact Jo-Shing Yang, jsyang@alum.mit.edu or (916) 448-8392 evenings.

This event is brought to you by CAEPA's Program Committee: Dr. S. J. Chern, Dr. S. T. Su, and Jo-Shing Yang.